

**APPARATUS AND METHOD WITH SPECIFICALLY PROVIDED
DEVICE FOR AUTOMATIC BURST DETECTION IN BLOW-
MOULDED CONTAINERS**

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ABSTRACT

Apparatus for blow moulding hollow plastic bodies from plastic preforms, or parisons, which is adapted to detect bursts occurring in plastic bottles. The apparatus includes a differential pressure transducer arrangement, a low-pressure gas supply source along with a related first supply channel, a high-pressure gas supply source along with a related second supply channel. The differential pressure transducer arrangement is made up by one or more tubes arranged crosswise in the second supply channel. These tubes contain respective separate chambers opening into the interior of the second supply channel (Pitot tubes). Two sensors adapted to detect respective pressures are connected in a distinct manner to the respective chambers. Any possible pressure variation at pre-determined moments during the blow-moulding cycle is processed and compared, and the result is an indication of whether a serious irregularity, such as a burst or a silent gas leakage, took place during the blow-moulding process of a given bottle.